Sea Monsters Afford New Source of Leather for Our Shoes

Hides of Sharks, Porpoises and Other Aquatic Creatures Offer Boundless Supply for Industry Lacking Ordinary Materials While Facing Unprecedented Demands

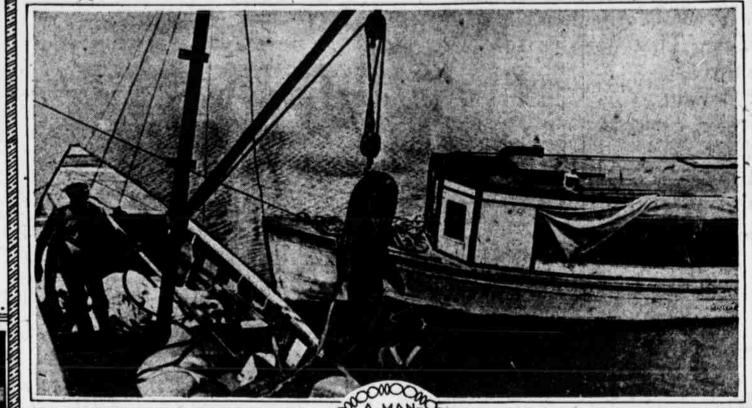
By ROBERT G. SKERRETT.

MERICANS are going to pay in the neighborhood of \$100,000,-000 more for their shoes in the next twelve months. That is to say, the wholesale price per pair is going to jump a matter of from 25 to 50 cents, and by the time this added charge is made from porpoise hide is remarkable passed on to the retail trade the ulti- for its tractility. It is therefore admate purchaser'is to be taxed anywhere from 50 cents to \$1 for his new and contracting under the stresses im-

selves to various trade needs, and to that extent tended to equalize manufacturing activities. They did not fig-ure to any extent in the making of boots and shoes.

Value of Porpolse Hide.

It has long been known that leather mirably suited for shoes, stretching posed upon it during the different



leather, depending, or course, upon the size of the animal. The devilfish not infrequently has a skin big enough to cover, when tanned, an area of 100 square feet; the various members of the whale family, the beluga, the sawfish, &c., all have hides of notable size.

Realising that the waters along our seabgards are rich in so many of these sharks salted and dried is marked as the salted as the sa seaboards are rich in so many of these sharks salted and dried is marketed as sea creatures, it is not hard to under- 'Folkestone beef.' Until recently their stand how it will be possible for us to use as food in the United States has obtain immense quantities of leather been limited principally to scafaring and, to a great extent, make ourselves people in scattered localities and to the independent of foreign sources of fish markets of some of our larger

cities, but with late interest aroused in

Development, Aided by Government,

Promises Check on Soaring Prices

and Elimination of Poor Substi-

tutes Now Used-How Big

Fish Are Captured



STRETCHING The SKINS PRELIMINARY TO TANNING THEM by A RECENTLY DEVELOPED PROCESS WHICH MAKES THEM FINE GRADES OF LEATHER

ners tell us, is the scarcity of leather | soid in the past for anywhere from \$3 stock. Normally the United States de- | to \$5 a pound, and a pound of the mapends upon the outside world for quite terial is commonly sufficient for the 45 per cent, of its cattle hides, substan- | making of three pairs of shoes. tially all of its goatskins and a very! But porpoise leather has not been a considerable part of the sheepskins factor of any moment in the shoe inconsumed here. The latest authorita-tive figures available show that we im-reached the market have as a rule. ported 700,000,000 pounds of hides and been in the way of a by-product of skins in 1917, which were valued at the fish oil refineries. The day has now ports of entry at \$216,000,000. During come for us to make a regular businine months of the fiscal year 1917-18 ness of capturing the porpoise and ended with March of last year there other aquatic creatures for their skins, was a falling off in the amount of the and happily the art of the tanner has imports of nearly 200,000,000 pounds, reached a stage where very superior and this in the face of a worldwide in- grades of leather can be made from creased demand for shoes

U. S. Lends in Shoe Industry.

As most of us know, or should know the United States is the leading boot and shoe manufacturing nation. With the advent of peace our factories are going to be speeded up as they have will not only have to supply all of our domestic requirements prime part in providing footwear for the peoples of other countries. No wonder, then, that the price of shoes is York, and the raw materials were likely fo climb in view of an unavoidable lack of leather from the usual rebelieve that a vast number of us face an added levy of \$2 a pair for such shoes as we may buy next fall and

been satisfied with these substitutes. As a rule the shoes have not worn as well as those with which we have been familiar in the past. But our situation has been one of comparative luxury if we bear in mind what people abroad have had to put up with. Wooden shoes have been fairly common in England during the last two years, and on the Continent conditions have been worse still. In Germany the citizens that could not buy footwear fashioned of a paper fabric had to be content with any sort of makeshift wrapping or go barefoot.

And now comes the good news that there really is no reason why there country-leather made from domestic at hand potential supplies of vaand to sell excellent shoes at a profit be done if we were to depend, as heretofore, upon goatskins, calfskins, sheepskins and the hides of beef cat-In fact, relief lies in turning to the sea instead of to the land for the primary raw product.

A couple of years ago the United States Bureau of Fisheries started an active campaign having for its purpose the bringing about of closer cocreatures singled out especially for recovery for the tanning of their skins point results of a promising character were obtained, but the very nature of

rather numerous list of sea animals. Recently the United States Bureau

porpolse. The Government authorities but play a dren, belts. wallets, portfolios, brief footwear for cases, &c. These were products of

Ehrenreich, the president of the com-

The scaboard stations where the Morehead City and Broad Creek, North should be a scarcity of leather in this Carolina, and Fort Myers and Sanibal resources. Therefore why should we a glance at the map, these stations pay more for our shoes when there are situated in waters contiguous to rious kinds of leather which would Stream, where the sharks abound and has been a nuisance if not a menace.

The method of capturing these large 'Adrienne Lecouvreur'; Thursday, aquatic creatures is an adaptation of Friday and Saturday, 'Frou-Frou.' pose the bringing about of closer cooperation among fishermen, tanners
and manufacturers in promoting the
use of skins of aquatic animals in the
production of leather. Among the sea

seine fishing. The nets are of a speMatiness at 2; evenings at 8."

Not only ad groups of men and
very strong cord. The need of this
sturdiness can be easily understood theatre; they also loitered around the
was charging double the usual price. were sharks and porpoises. Up to a pounds, and the devilfish, from which When she hurried out at lunch time life and books of the play.

of Fisheries announced that it had received a sample lot of leathers made the sturgeon, the paddlefish and the obtained at the same time articles made from such leathers, which included shoes for men, women and chilthe Ocean Leather Company of New Atlantic and Gulf coasts.

der way by the company only since

Where Fish Are Captured.

fish are captured are four in number: Island, Florida. As will be seen by other large creatures of the sea are erally infested with sharks of several varieties and these are to be met at all seasons. Experience has revealed catch of five sharks for every porpolse taken, and the industry promises to turn to good account a voracious tickets. Posters attracted attention, denizen of the deep which heretofore

when it is realized that the sharks stage door. Sarah Bernhardt was inrange in weight from 400 to 2,000 side, rehearsing with her company. pictures of Bernhardt, accounts of her "That Mile. Be excellent leather is made, frequently for a bite to eat at her hotel, the Alweigh fully 3,000 pounds, while the bermarle, quite a crowd collected to became a multitude. Traffic was hibited any degree of supreme masevening will be memorable in the hissued a pamphlet dealing exclusively
porpoise, blackfish, swordfish, &c., are await her return.

A LARGE CATCH OF PORPOISES

For something like ten years Alfred the hide of cattle, &c. shoes as we may buy next fall and winter.

The cloth topped shoe, composition soles and fabric linings have sufficed in a measure to make up for the shortage of feer, but very few of us have sufficed, been satisfied with these substitutes.

The shoes as we may buy next fall and winter and pany, has been working on a tanning along the coasts of North Carolina dragging a load weighing tons from the water to a secure point high and sold to the Chinese as a clip.

The skin of the blackfish—one of the water to a secure point high and sold to the Chinese as a clip.

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The skin of the plackfish—one of the will an the clip.

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The skin of the plackfish—one of the water to a secure point high are dried and sold to the Chinese as a clip.

The skin of the plackfish—one of the will and the coasts of North Carolina and 14.6 per cent of points.

The skin of the plackfish—one of the will and the coast of the will and the coast of the will and the coast pany, has been working on a tanning along the coasts of North Carolina dragging a load weighing tons from in order to tan the hide for service to The skin of the blackfish—one

ican début.

LANDED ON The

CAROLINA COAST ...

eern has established along our South injuring the animals, because a dam- some of those lashing tails. Not only for polishing metal and wooden sur- of sea creatures, the stomach of the

The craft depended upon for this purposes, and because of the orna- turned into leather susceptible of product

signed to the theatre.

The confusion was increased

The crowd became a mob, the mob

the scene of Sarah Bernhardt's Amer- every one wanted to be on hand to see

ried into the lobby and inquired about women in evening clothes experienced gallery.

aged fish skin canot be repaired like must the nets be strong enough to faces because of its abrasive charact whale is susceptible of tanning and he hide of cattle, &c. | imprison the excited creatures, but ter. The difficulty, however, has been the product is a leather which is The nets used for the operations they must be equal to the stress of to get rid of this hard exterior layer strong, thick and flexible.

flowers. The New York Times of No-

ble to use them for nearly every purpose for which the usual leathers of commerce are now employed. Actual operations in this field have been unstandard that would make it practical frequently calls for some very pretty to 10,000 big fish having skins of a character jaw pans, which is the lubricant par shoes, the second is of a character jaw pans, which is the lubricant par shoes, the second is of a character jaw pans, which is the lubricant par of the shark commerce are now employed. Actual operations in this field have been unsurf at times.

In this field have been in this field have been unsurf at times.

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In this field have been unshows, the second is of a character
jaw pans, which is the lubricant par
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The craft depended upon for this last October, and the local tannery is loc-day handling something like 500 handling something like 500 handling something like 500 of expanding the existing facilities to enable the firm to take care of thousands of hides daily.

Where Fish Are Captared.

The craft depended upon for this purposes, and because of the ornamental surface natural to them when denisted of the shark can be product.

To gate—quite a different story from the shark can be product.

To gate—quite a different story from the memorial surface natural to them when denisted of the shark can be product.

To gate—quite a different story from the memory is strick in the story from the memory applications. Further, from the stomach of the shark can be product.

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Memories of Sarah Bernhardt's American Debut November 8, 1880, there was further attention. A newspaper sub- drave up in a carriage, some one start- her own, an individuality that makes

morning, increasing in the afternoon, and culminating at night. Booth's Dozens became scores, and scores manager, Mr. Abbey, who escorted her pying three-quarters of a column:

The New York Heraid of November manager, Mr. Abbey, who escorted her pying three-quarters of a column: The New York Herald of November The seating capacity of Booth's "Those who expected to listen to can debut.

The seating capacity of Booties end of the fourth act she received an should create a greater Adriense than

many times and was showered with were thoroughly disappointed," occupying two and a half columns on excitement and the production:

DEVIL FISH ETC, READY TO BE MADE INTO SHOES, BAGS, ETC. Heretofore the principal uses made new sea foods they are finding a place

The FINISHED SKINS OF SHARKS, PORPOISES

of the skins of sharks and allied fishes | n our largest fish distributing centres have been for covering jewel boxes | nd have appeared on the menus of sheaths, sword grips and a wide vari-ety of small articles for which the tuitles." berculous markings peculiarly adapted selatinous, resembling halibut, but them. But to leave the esthetic and somewhat less firm, and compares fato come to more homely applications, vorably in food value with other staple it seems that the unmodified skin of food fishes and meats. The flesh of the the shark can be tanned and made young sharks and such small forms as an exceedingly durable sole the grayfishes is particularly leather, the shagreen side of the hide fresh, but it is as a preserved produ being turned out. As a result the that the meat of sharks especially wearer walks upon a surface composed commends itself. Salted and smoked of horny nodules which wear away or kippered it is excellent. It may also very slowly and virtually give the be salted and dried, flaked or shredded same service as the familiar hobnail Working hand in hand with the tar-

ket, because there are various fields economic importance. of activity where footwear of that kind would be especially desirable. So much for the strictly leather side of this growing industry. Commer-cially, enterprise along these lines marketable flesh and other refuse can would be uneconomical and only mod | be suitably treated and converted into estly profitable if the aquatic animals fertilizer, and the chemical analyses were caught for their skins alone. At these fertilizers show them to be high the fishing stations on the Carolina in essential plant foods. The drief and Florida coasts there are also es flesh of the shark per unit of weight tablished reduction plants, where every contains 18.45 per cent. of ammonia part of the creatures captured is 1.8 per cent, of phosphoric acid and turned into some marketable product. 3.33 per cent. oil, while the bones of In the case of the sharks one by prod- the shark show 12.1 per cent of am-

\$50 a gallon. Again, the livers of the gate—quite a different story from the shark, the ray, &c., yield oils that it outlays and risks involved in raising some of the larger sizes.

creatures is convertible into a product present infant industry is one that has numerous applications and fruits of this searching for hear foot material for a superior sort of water- ity. The success obtained opens up Island, Florida. As will be seen by a glance at the map, these stations are situated in water stated in water are situated in water of Twenty-third street or directly in the sweep of the sharks abound and Sixth avenue, beginning in the street of the same of sheets of wood and thus to form the of ways. built up stock from which airplane propellers and many other parts of fly ing machines were made.

Sharks as Food.

Such of the intestines and other and stared at the building. Others hur- riages began to arrive, and men and back of the orchestra, balcony and many fascinating qualities, had their internal membraneus tissues which do expectations fully realized; those who not lend themselves to conversion into tickets. Posters attracted attention, considerable difficulty in gaining an announcing the bill for the week: announcing the bill for the week: "Monday, Tuesday and Wednesday, tional policemen who had been asstoppers, glue, &c. Where the flesh by ovation, was called before the curtain has been seen on the American boards, cannot be utilized for human food it can in most cases be ground and dried THE SUN of November 9, 1880, said for the feeding of chickens and cattle; vember 9, 1880, said in part, the article in part of a two column review of the and in this form it is rich in certain constituents which make it of value "A like scene had not been witnessed The shark, however, has a meat which "That Mile. Bernhardt dieplayed any proached by that on the occasion of either in power or in passion she ex- Miss Cushman's farewell. . . . Last United States Bureau of Fisheries isment and the products have varied big, heavy and violently active when with snarks as food, and it presented by this first been active when as the daylight faded, three great railroad were jammed, so that people that she proved herself by this first been active when as the daylight faded, three great railroad were jammed, so that people that she proved herself by this first been hards, the greatest railroad were jammed, so that people that she proved herself by this first been hards, the greatest railroad were jammed, so that people that she proved herself by this first been hards, the greatest railroad were jammed, so that people that she proved herself by this first been hards, the greatest railroad were jammed, so that people that she proved herself by this first been hards, the greatest railroad were jammed, so that people that she proved herself by this first been hards, the greatest railroad were jammed, so that people that she proved herself by this first been hards, the greatest railroad were jammed, so that people that she proved herself by this first been hards, and the proved herself by According to this bulletin: "Many

ome of the leading hotels in several

The meat of sharks is white slightly boot of the soldier. Shoes soled in this nery end of the industry, the fishing fashion should command a ready mar- for sharks can be made of conspicuous

There is still another use for the

The world war has compelled as t ome of the larger sizes.

The blood from certain of these go afield for many things and the

The Singing Milkman

OMING down the street was a milkman, singing; horse zgits along easily, the milkum seatel comfortably; and as he came a dig hi was singing to himself some some

The milkman gets up at a set ur earthly hour in the morning in make his rounds delivering, and the after people are up he goes all over his route again collecting his bear a long day the milkman pulse in and he makes it in all sorts of wather but for all that this milkman was singing; and it was pleasant a find him, as it would be to find and whatever his calling or po fession. of things, but able to hum a time st he worked.

